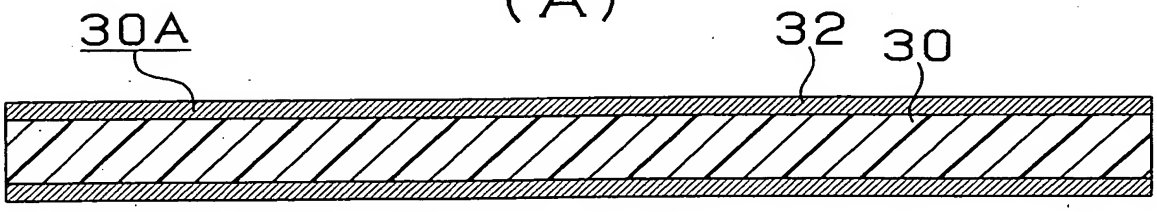
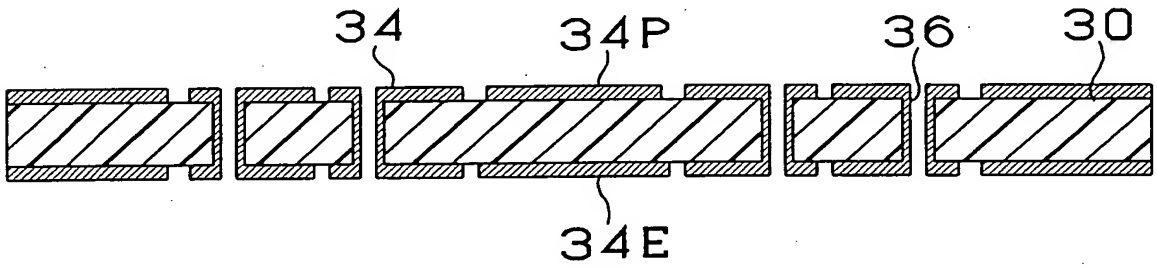
1/29
Fig.1

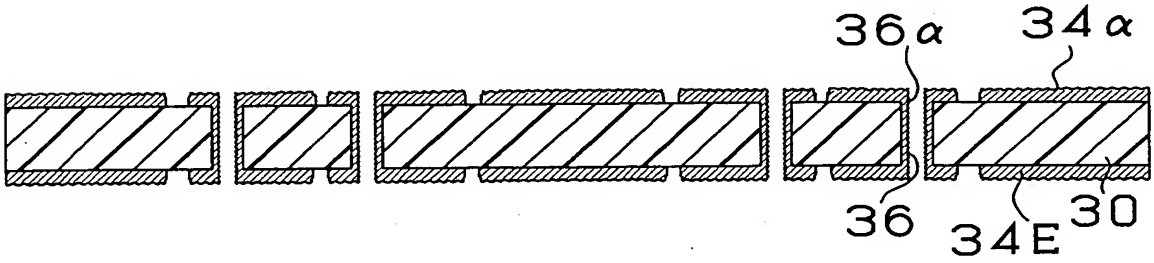
(A)



(B)



(C)



(D)

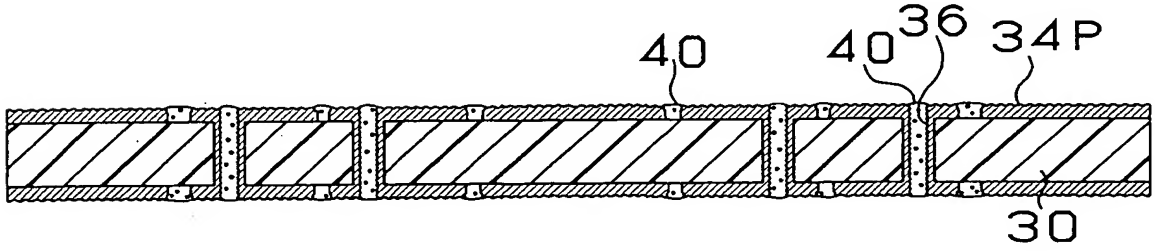
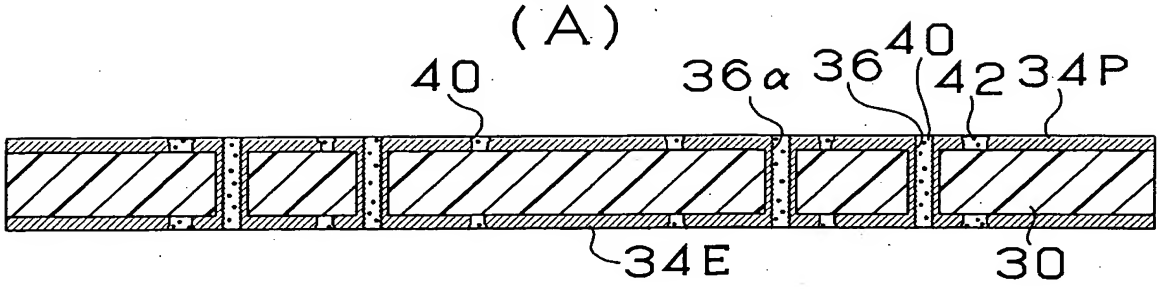
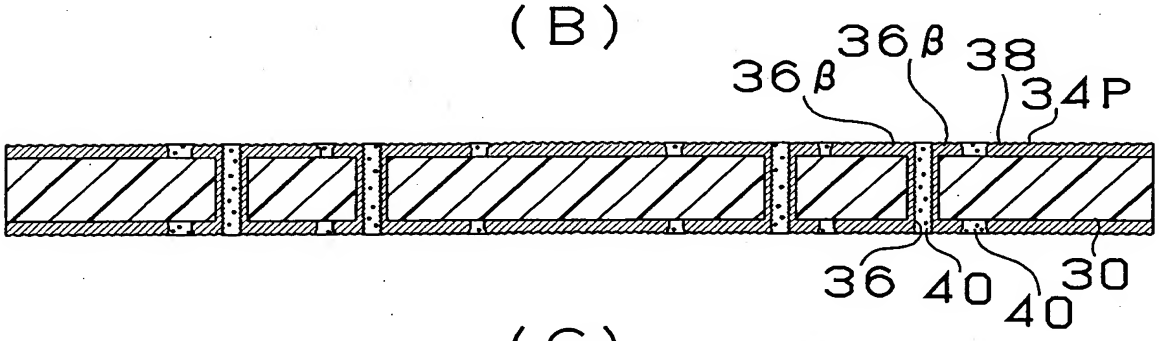


Fig. 2

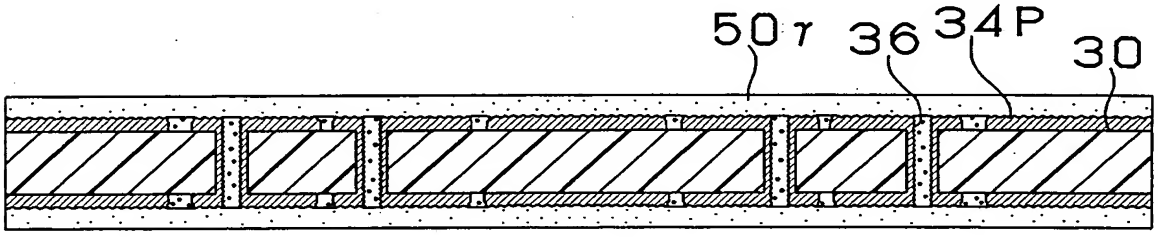
(A)


40
36α
36
40
42
34P
34E
30

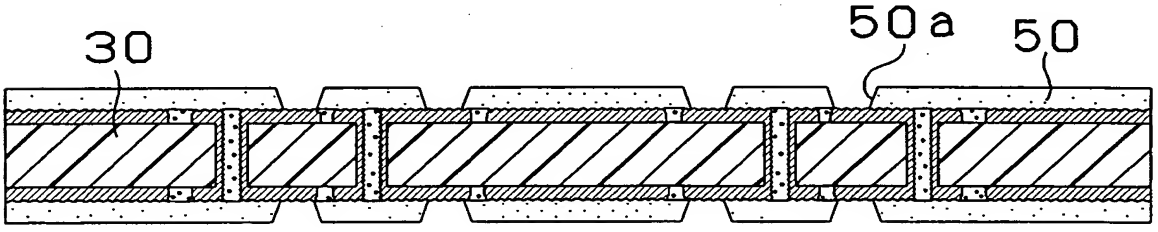
(B)


36β
36β
38
34P
36
40
40
30

(C)


50γ
36
34P
30

(D)


30
50a
50

(E)

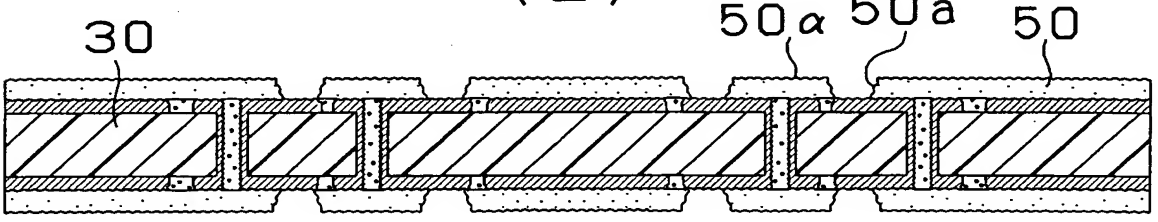
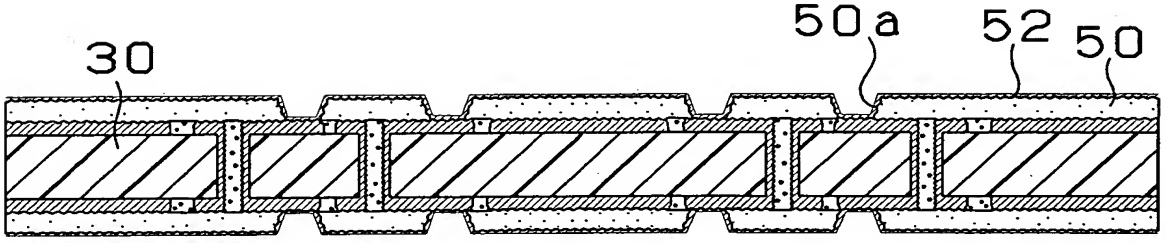
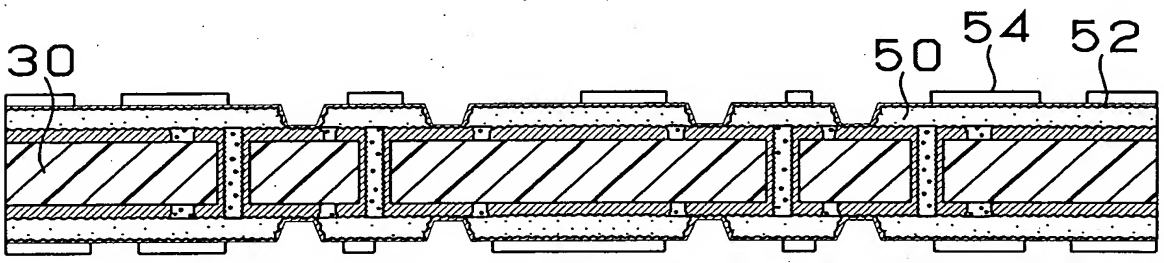

30
50α
50a
50

Fig.3

(A)



(B)



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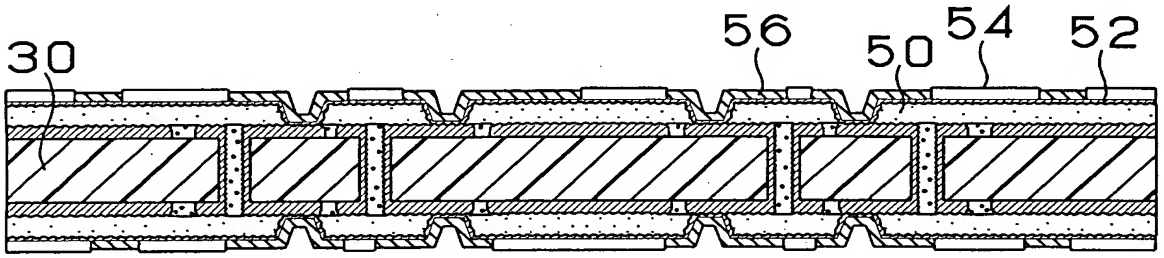


(D)

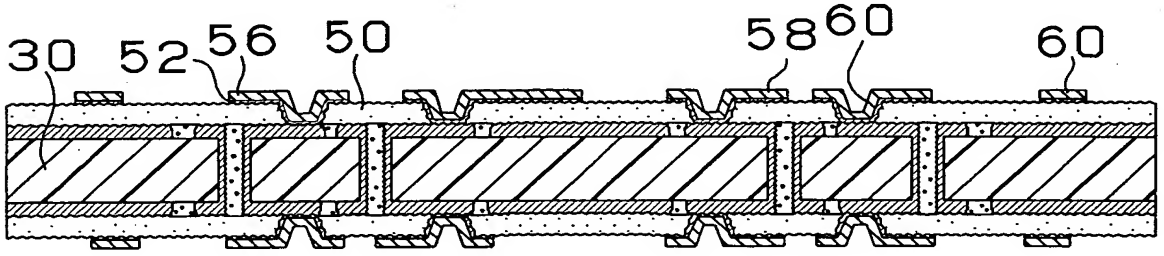
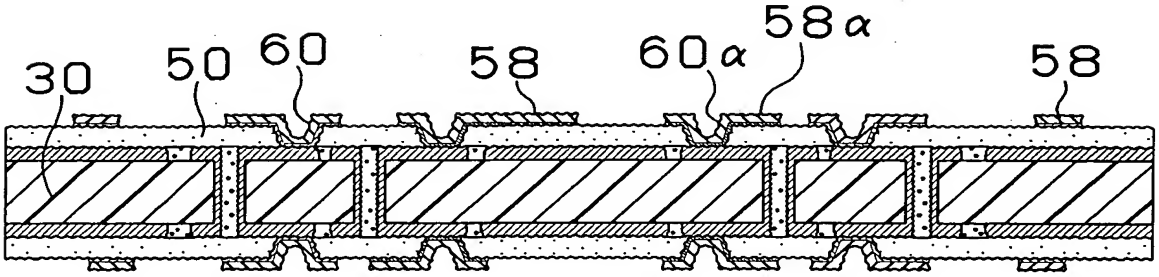
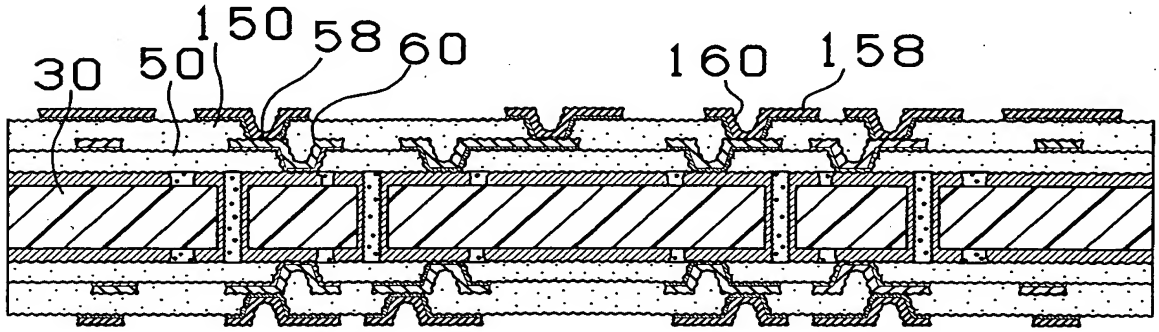


Fig.4

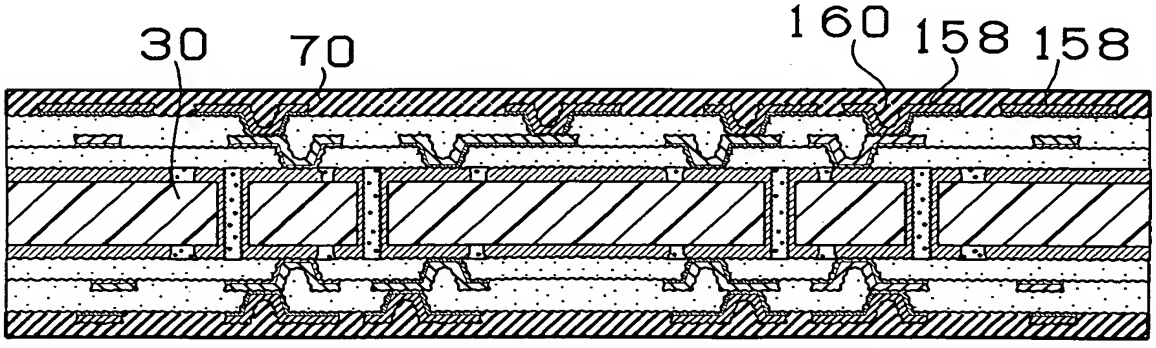
(A)



(B)



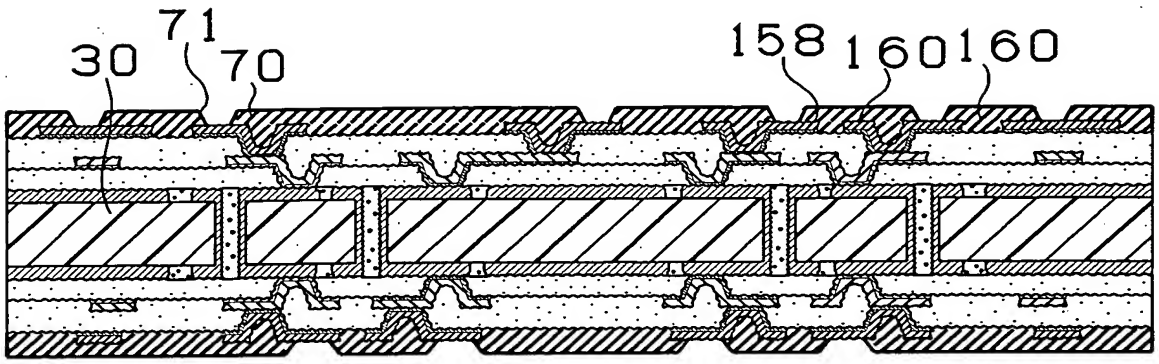
(C)



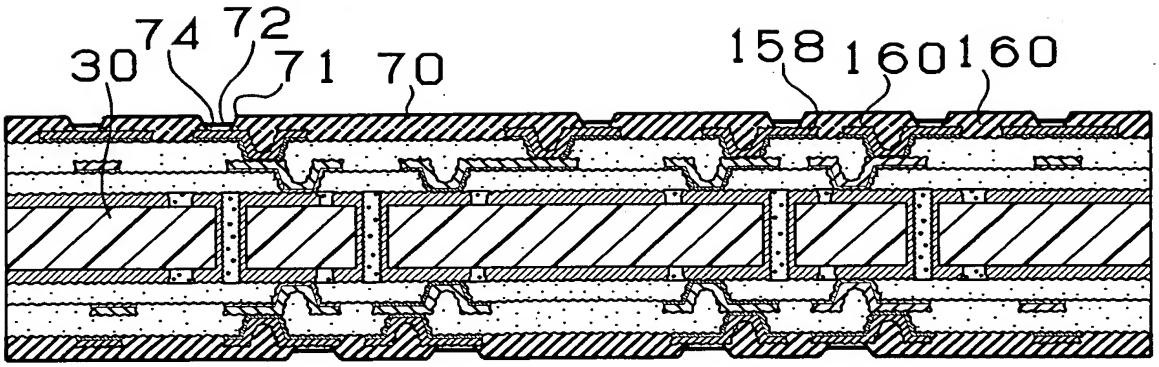
5/29

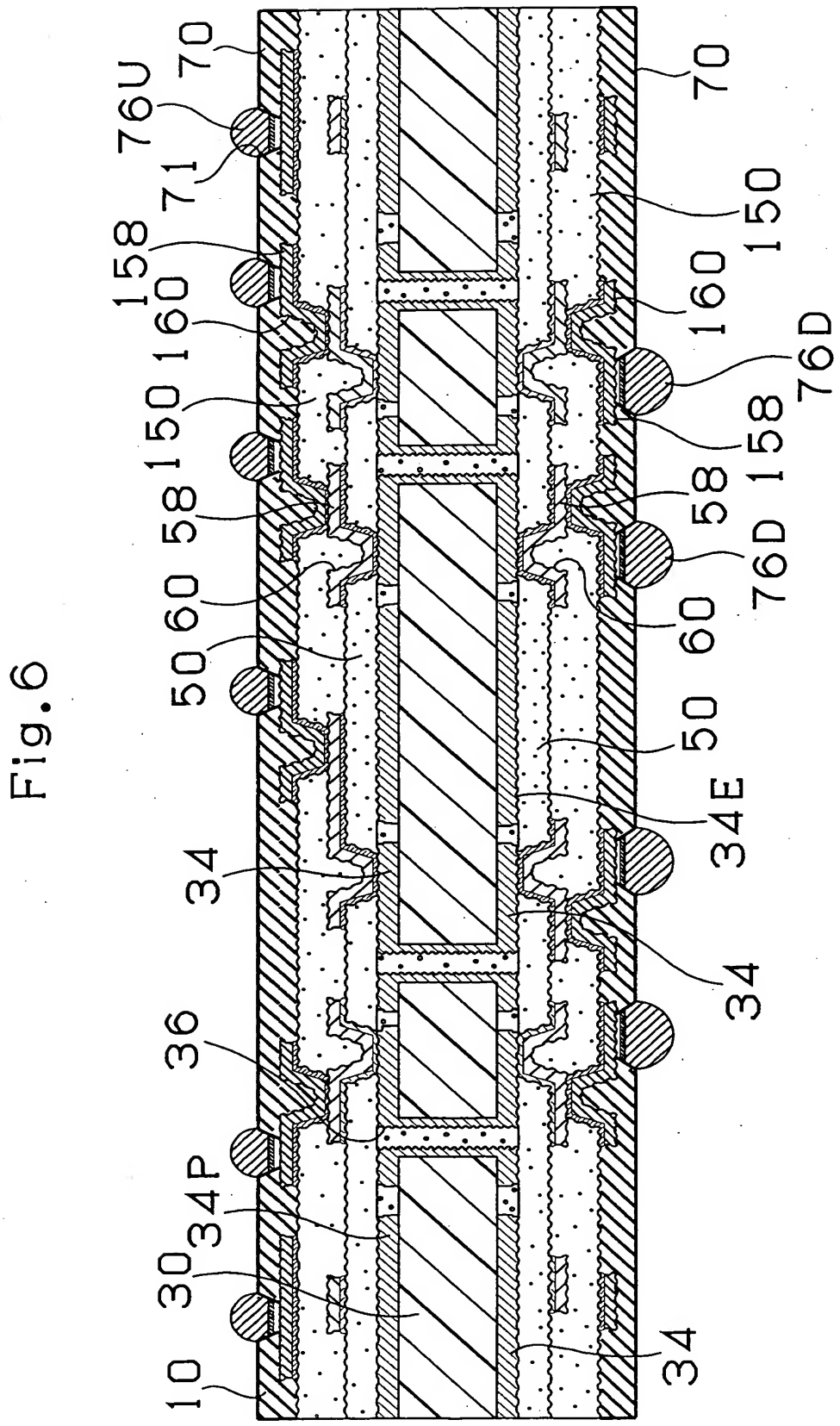
Fig.5

(A)



(B)




70
76U
71
158
160
150
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160
58
50
60
34
36
34P
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10
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160
76D
158
58
76D
60
50
34E
34
34

Fig.6

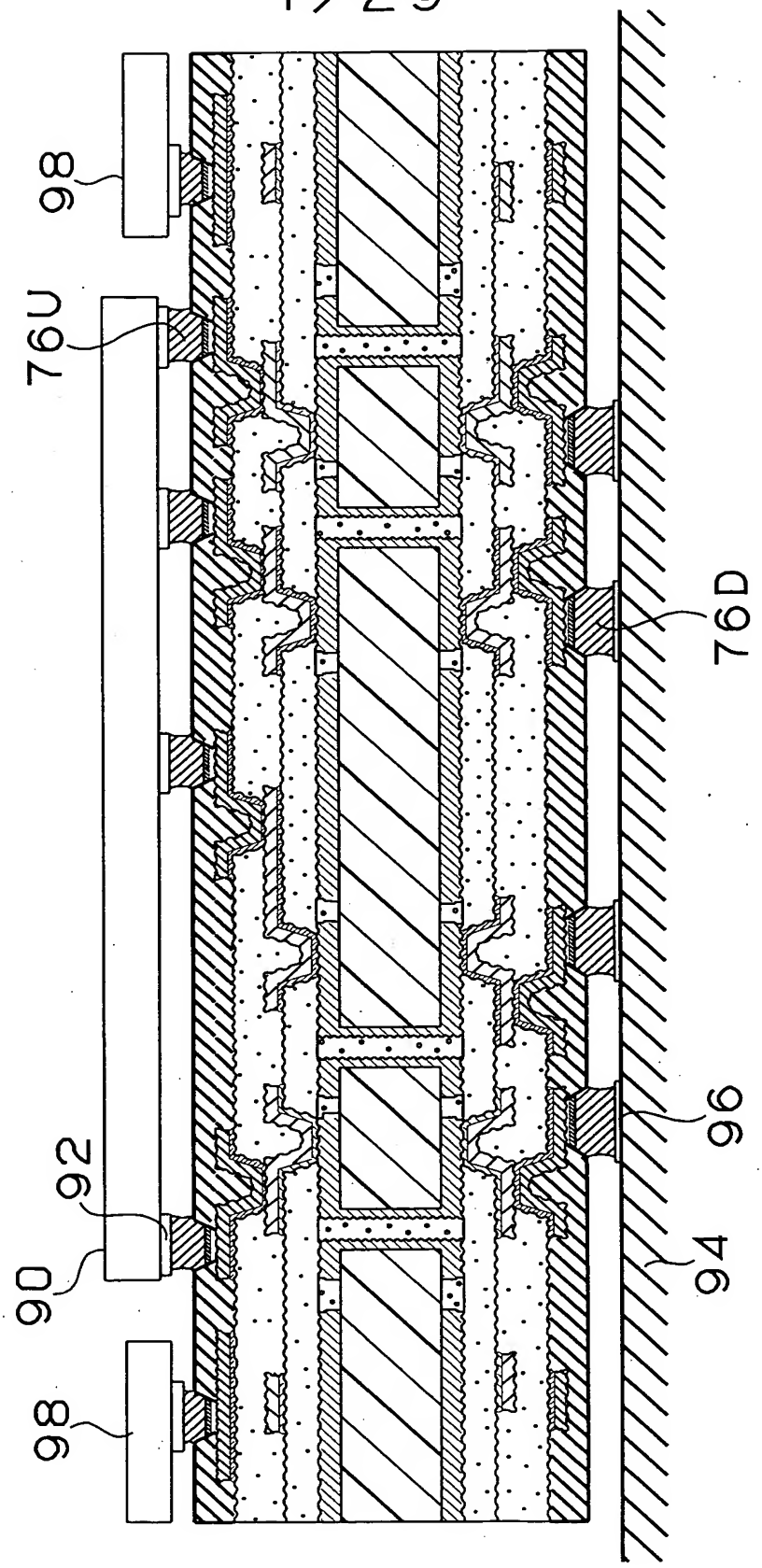


Fig. 7

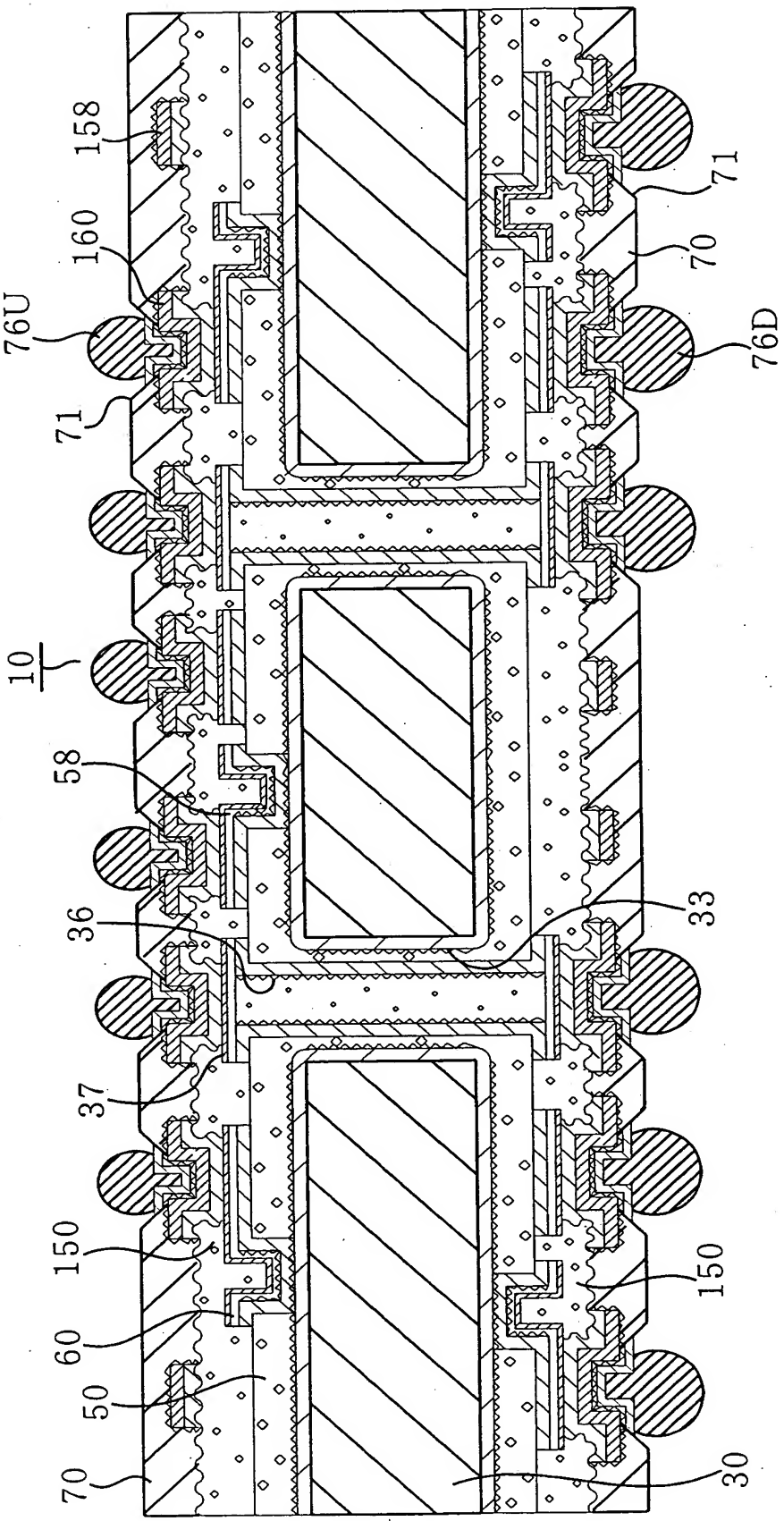


Fig. 8

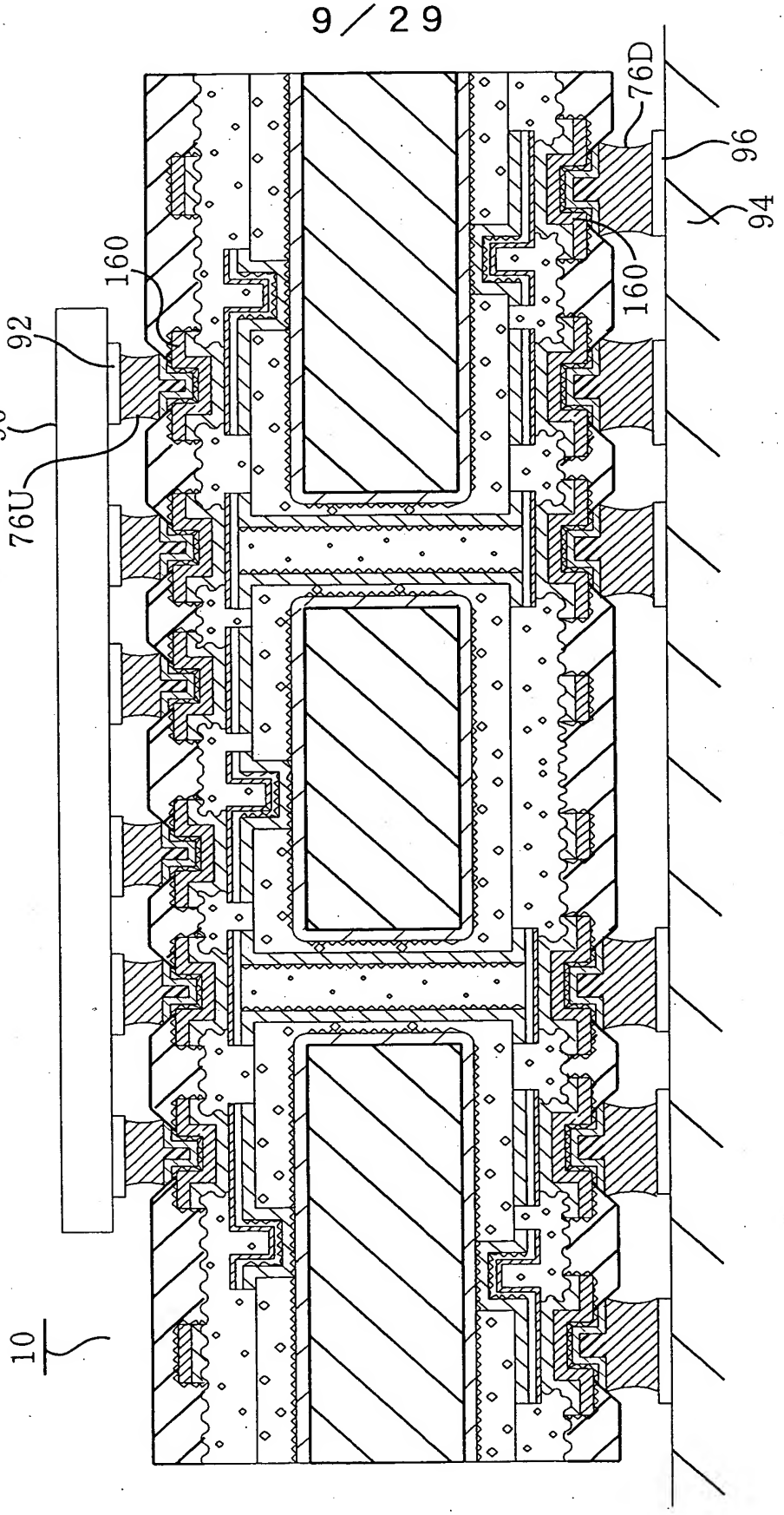
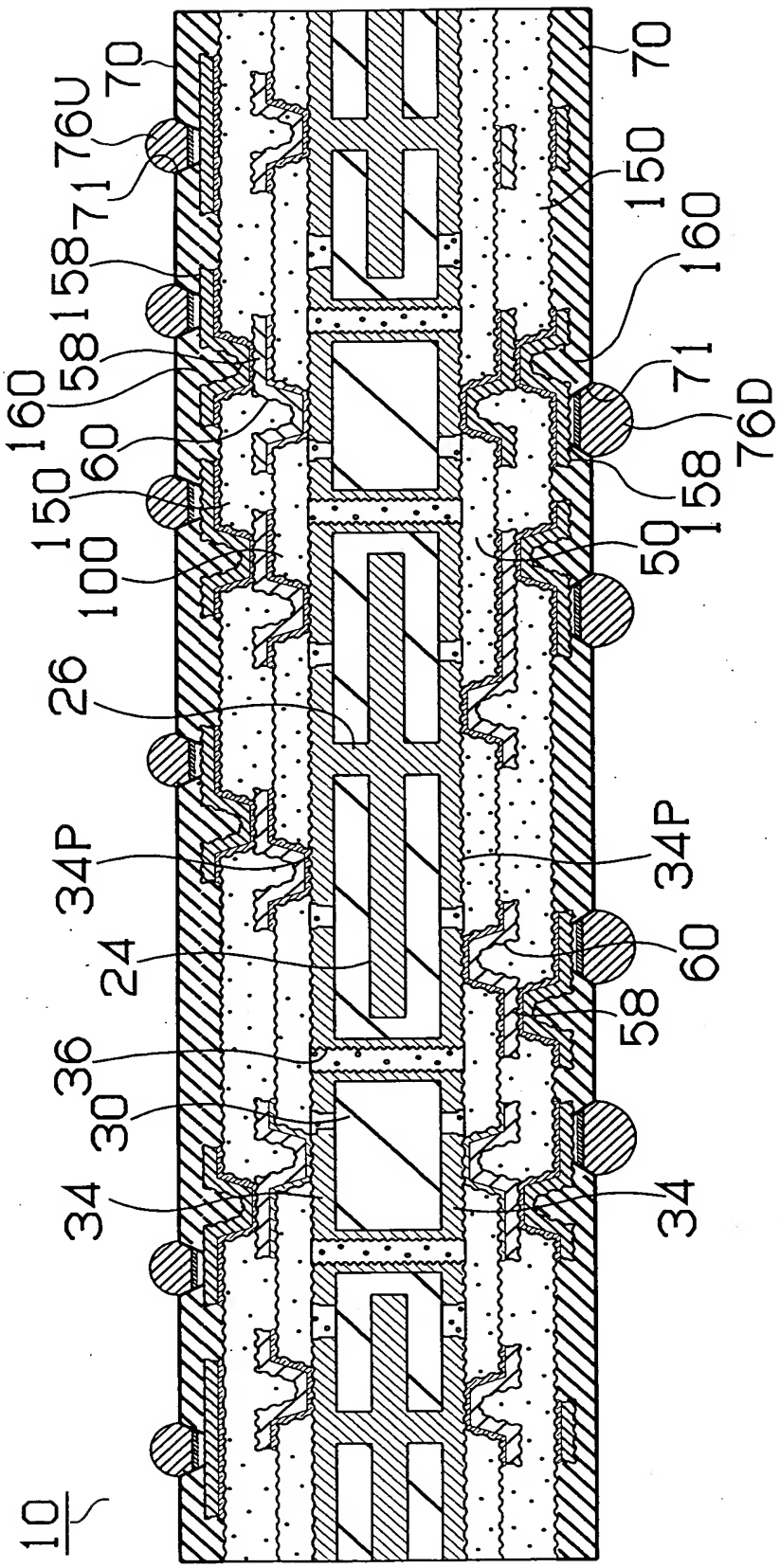


Fig. 9


70
76U
71
158
58
160
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150
100
26
34P
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70
150
160
71
76D
158
50
34P
60
58
34

Fig. 10

Fig.11

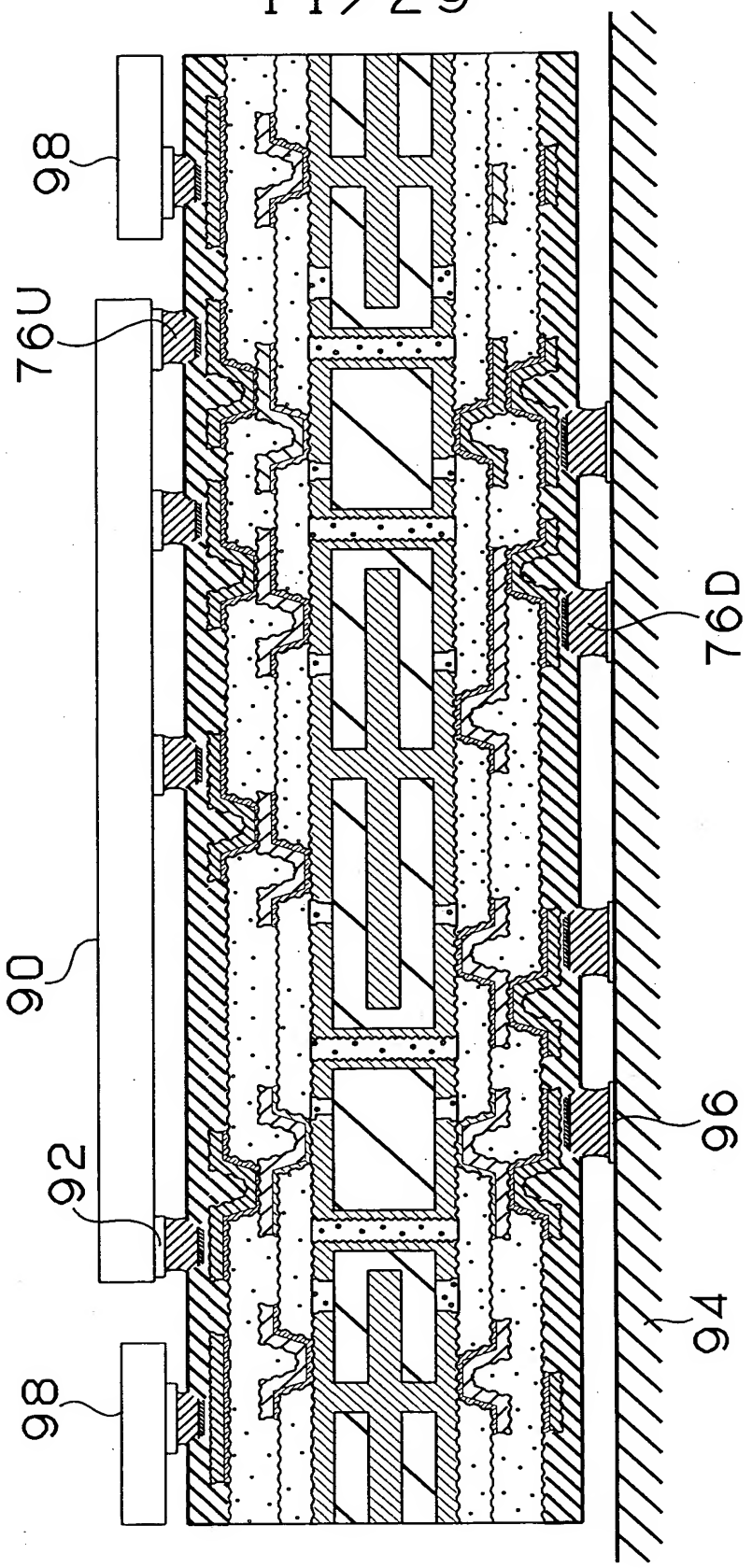


Fig.12

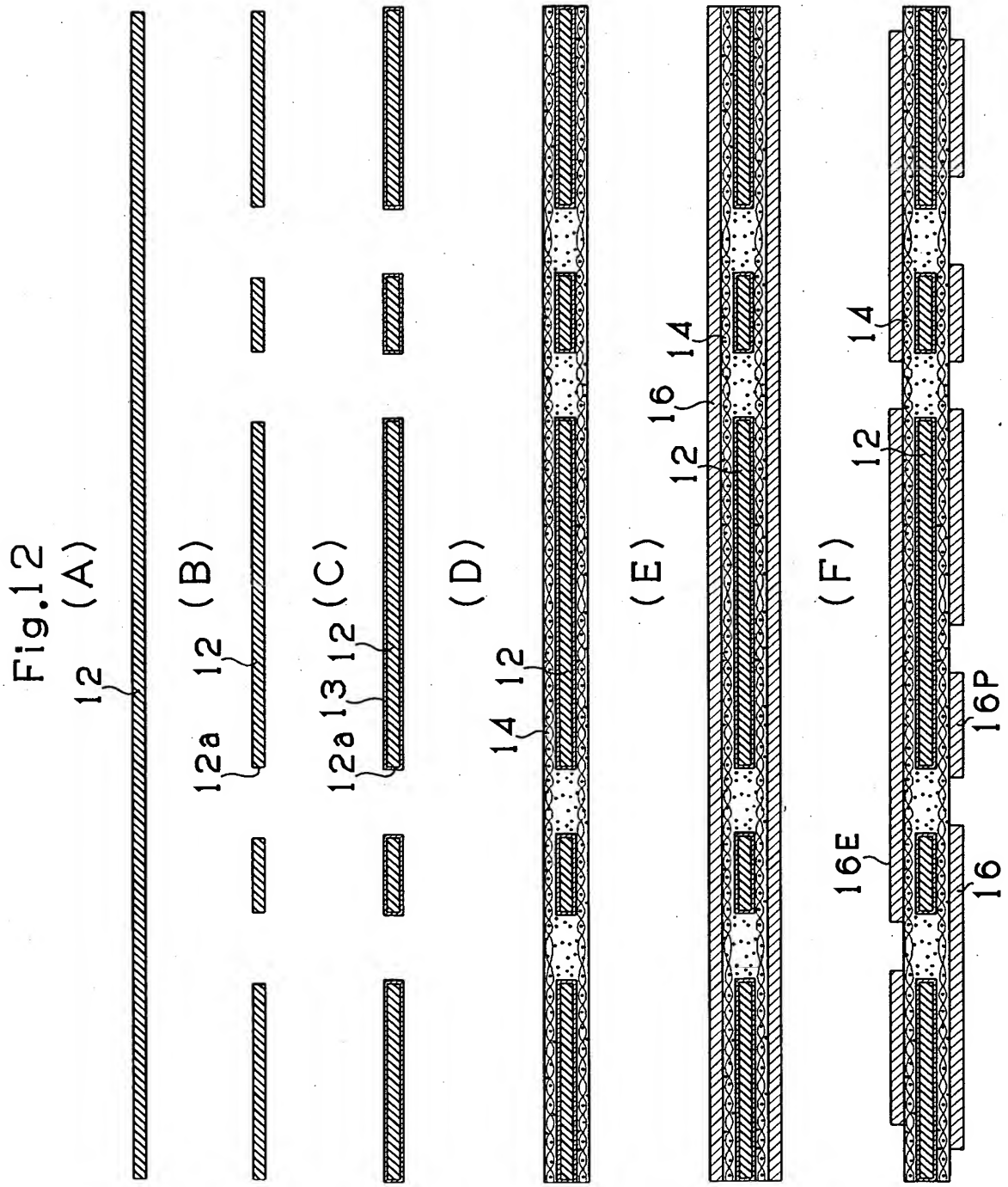


Fig.13

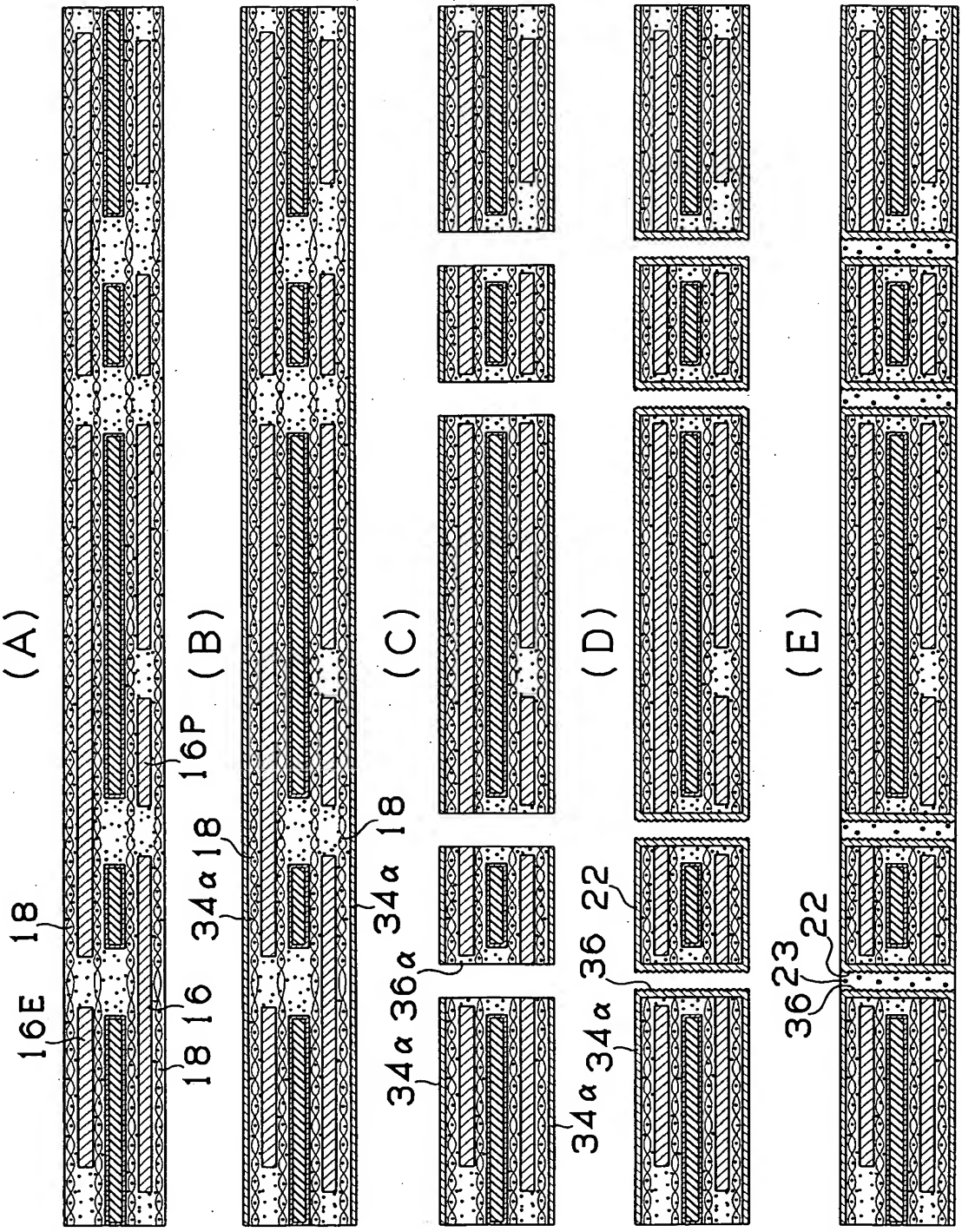

(A)
(B)
(C)
(D)
(E)
16E
18
18
16
16P
18
34α
18
34α
34α
36α
34α
34α
36
22
36
23
22
36

Fig.14

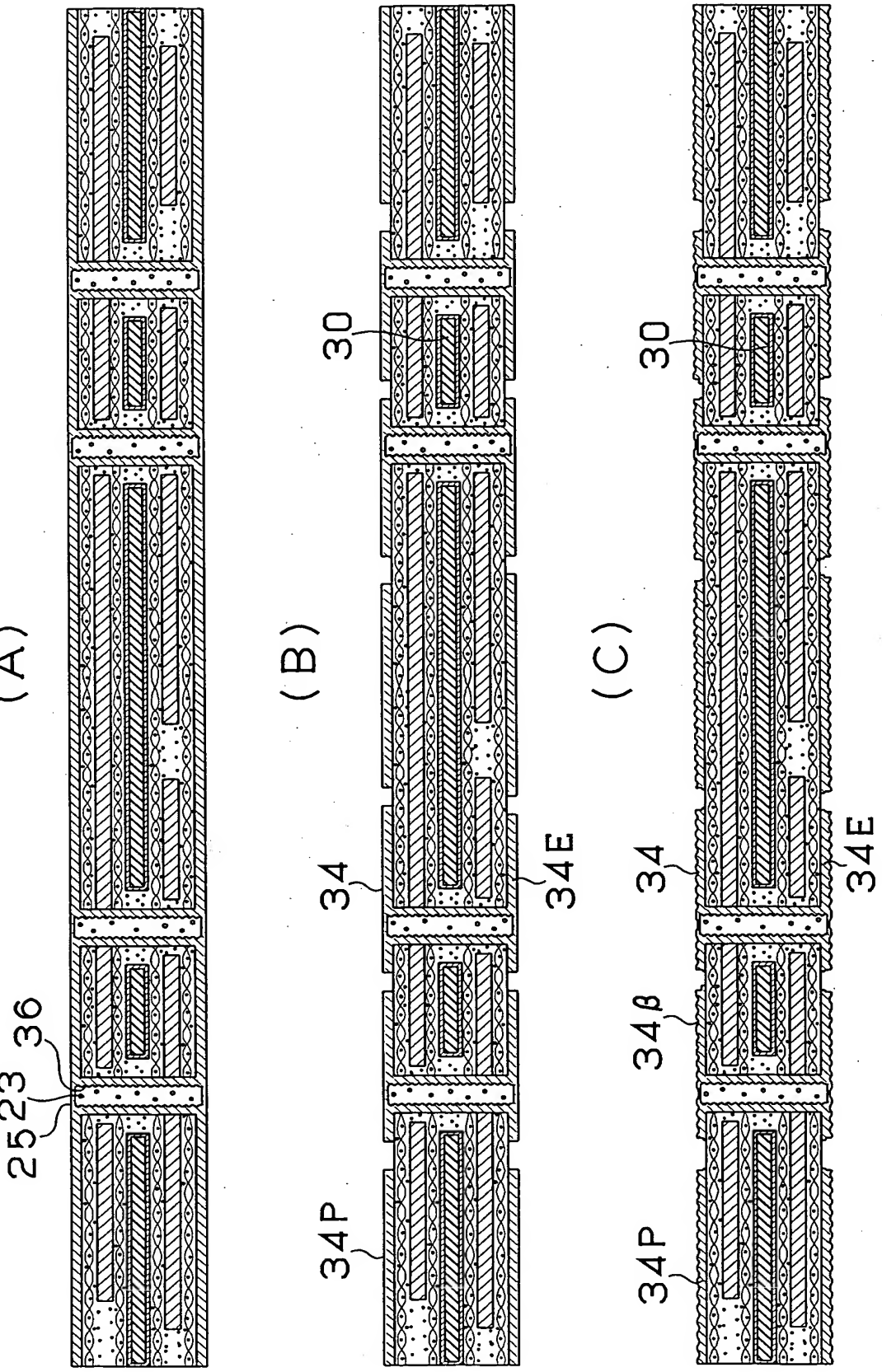
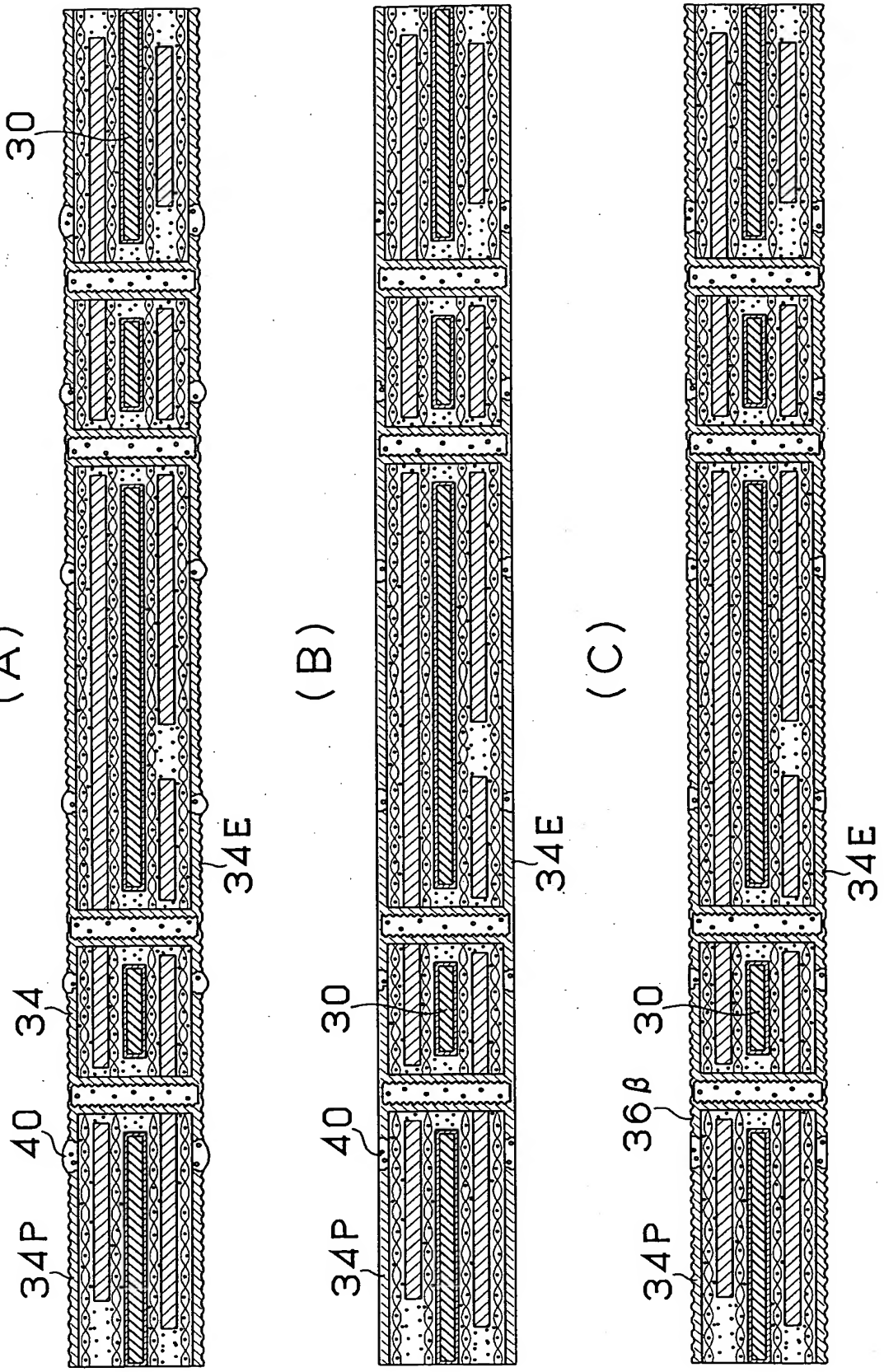


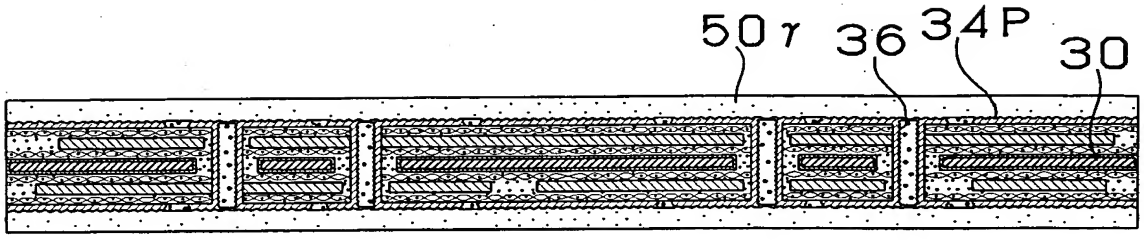
Fig.15



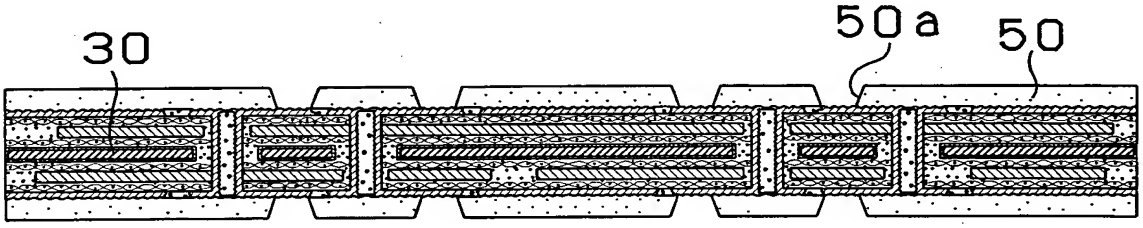
16/29

Fig. 16

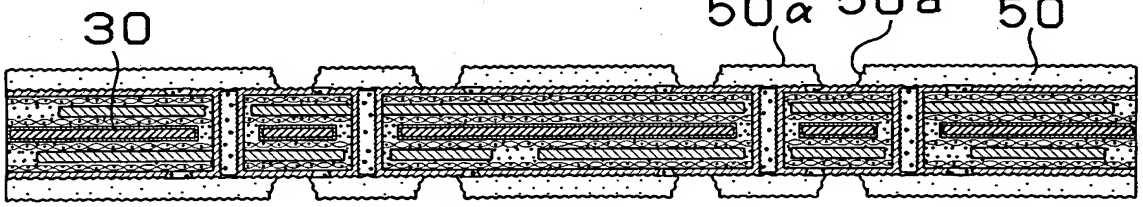
(A)



(B)



(C)



(D)

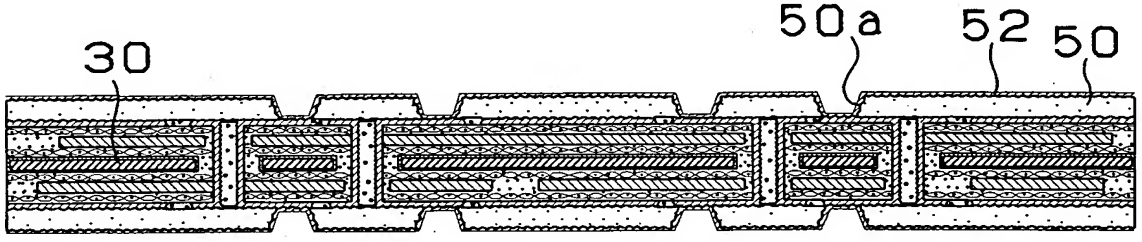
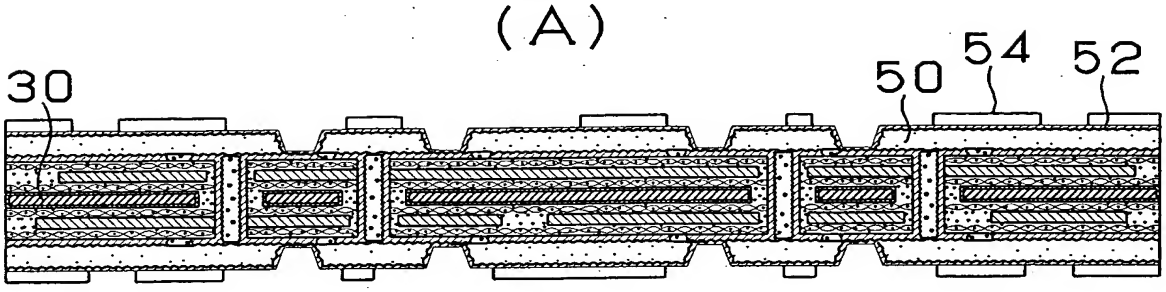


Fig.17

(A)



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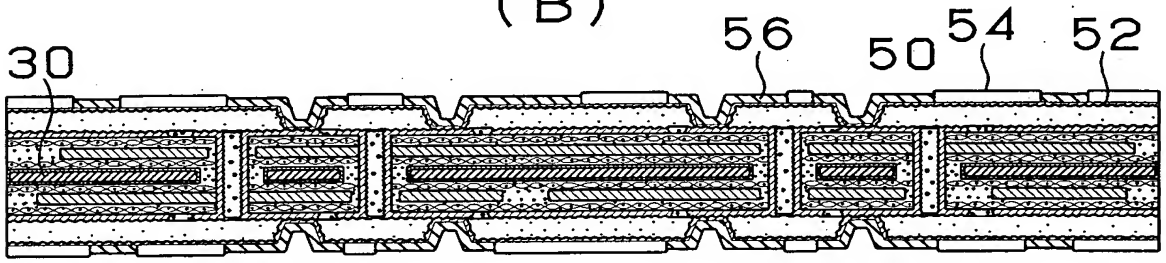
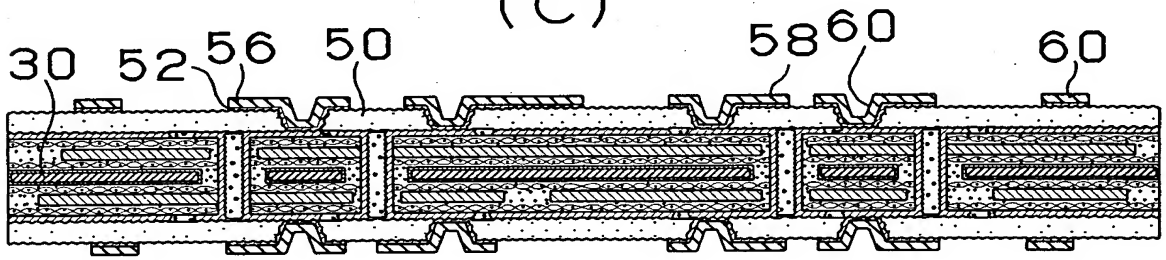
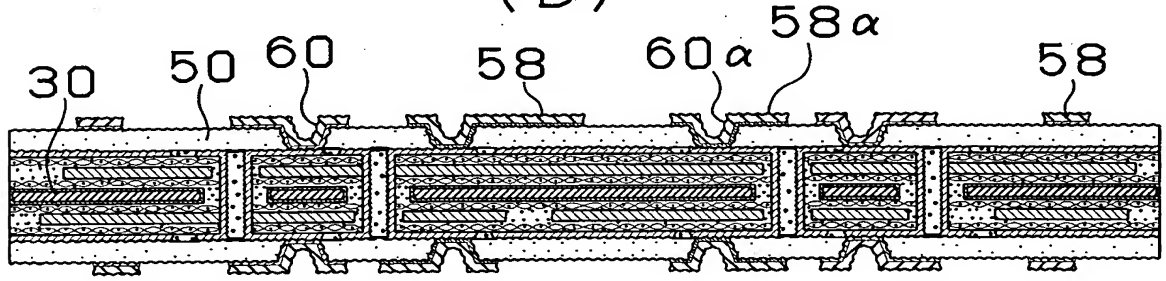


(C)



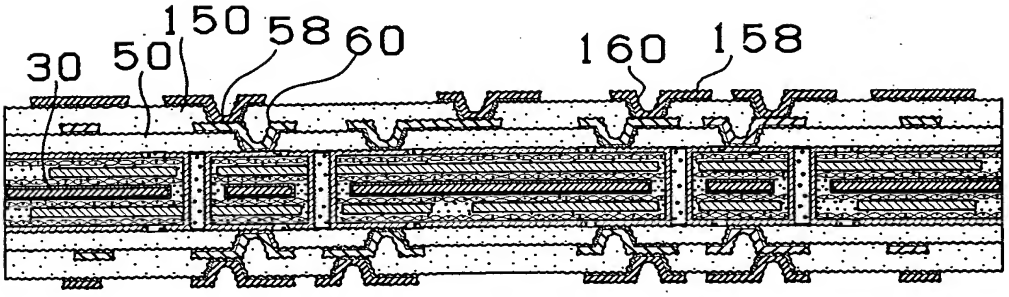
(D)



18/29

Fig.18

(A)



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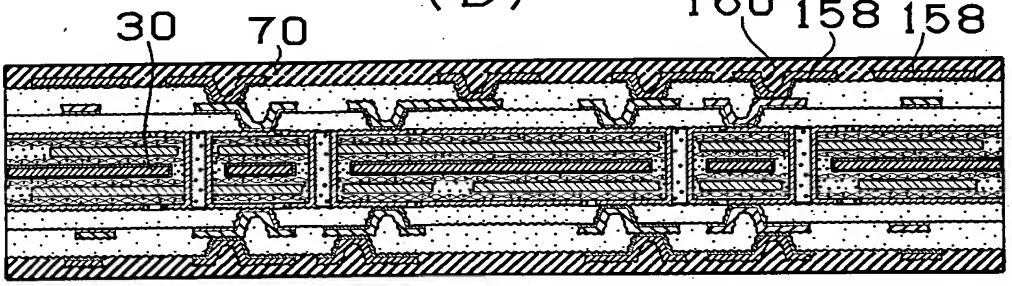

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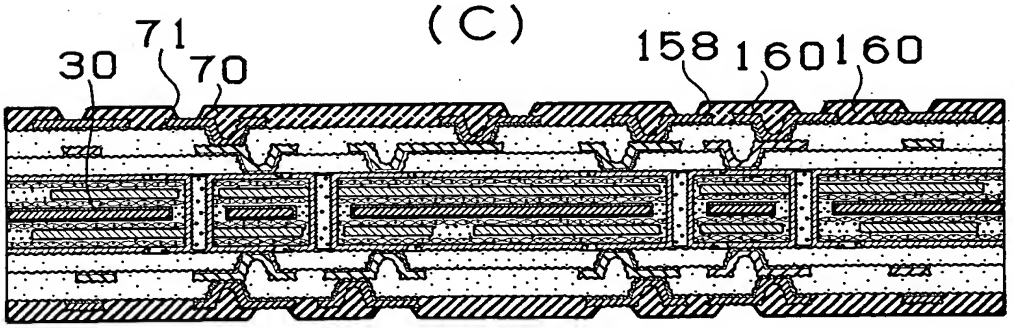
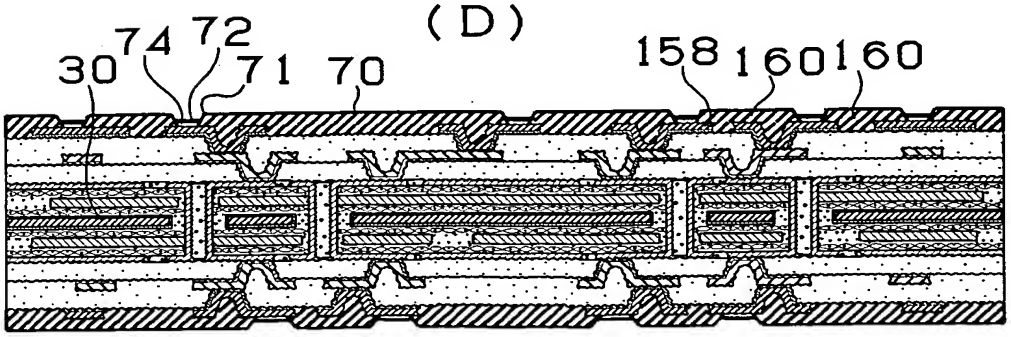
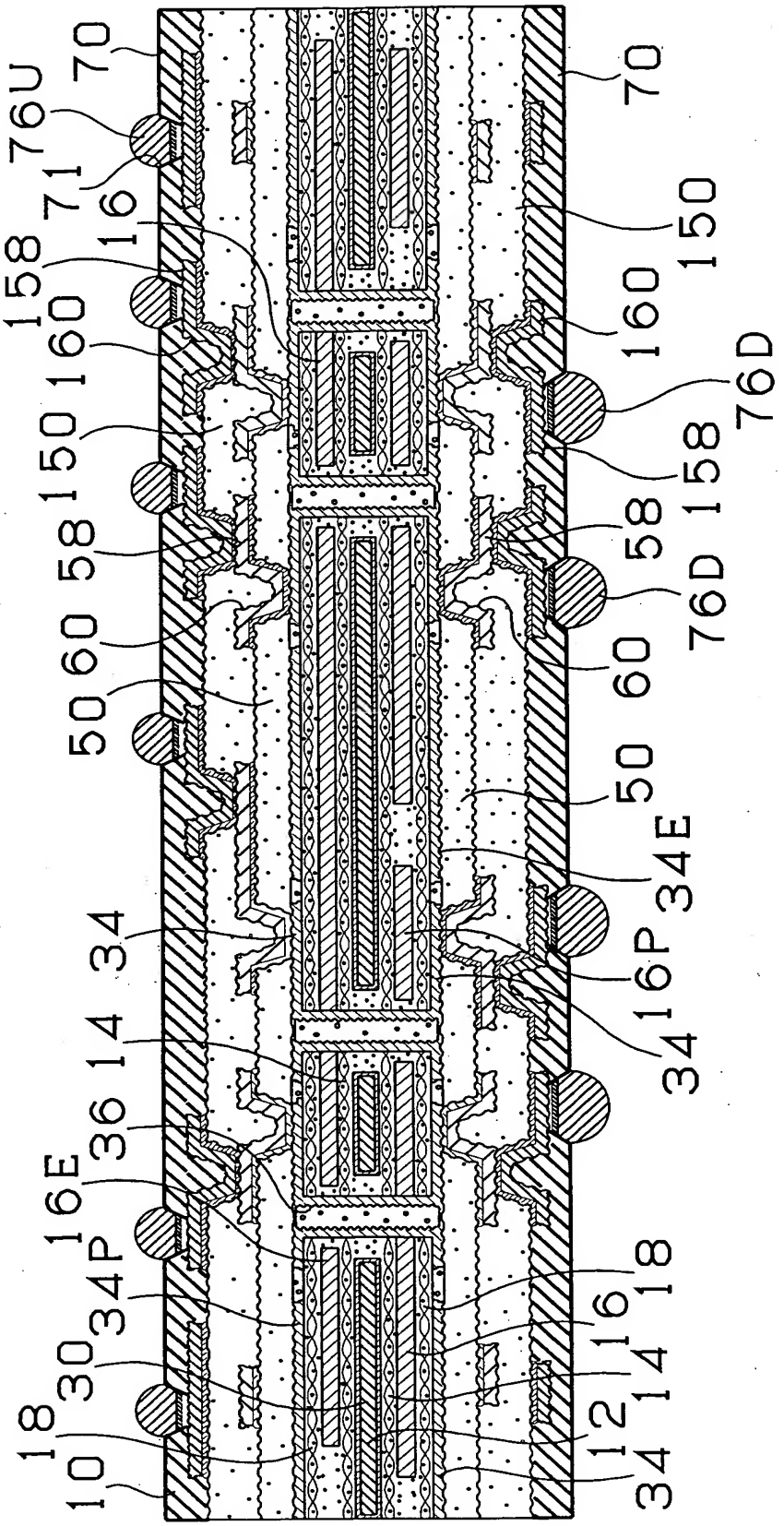


(D)

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16P
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76D
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Fig.19

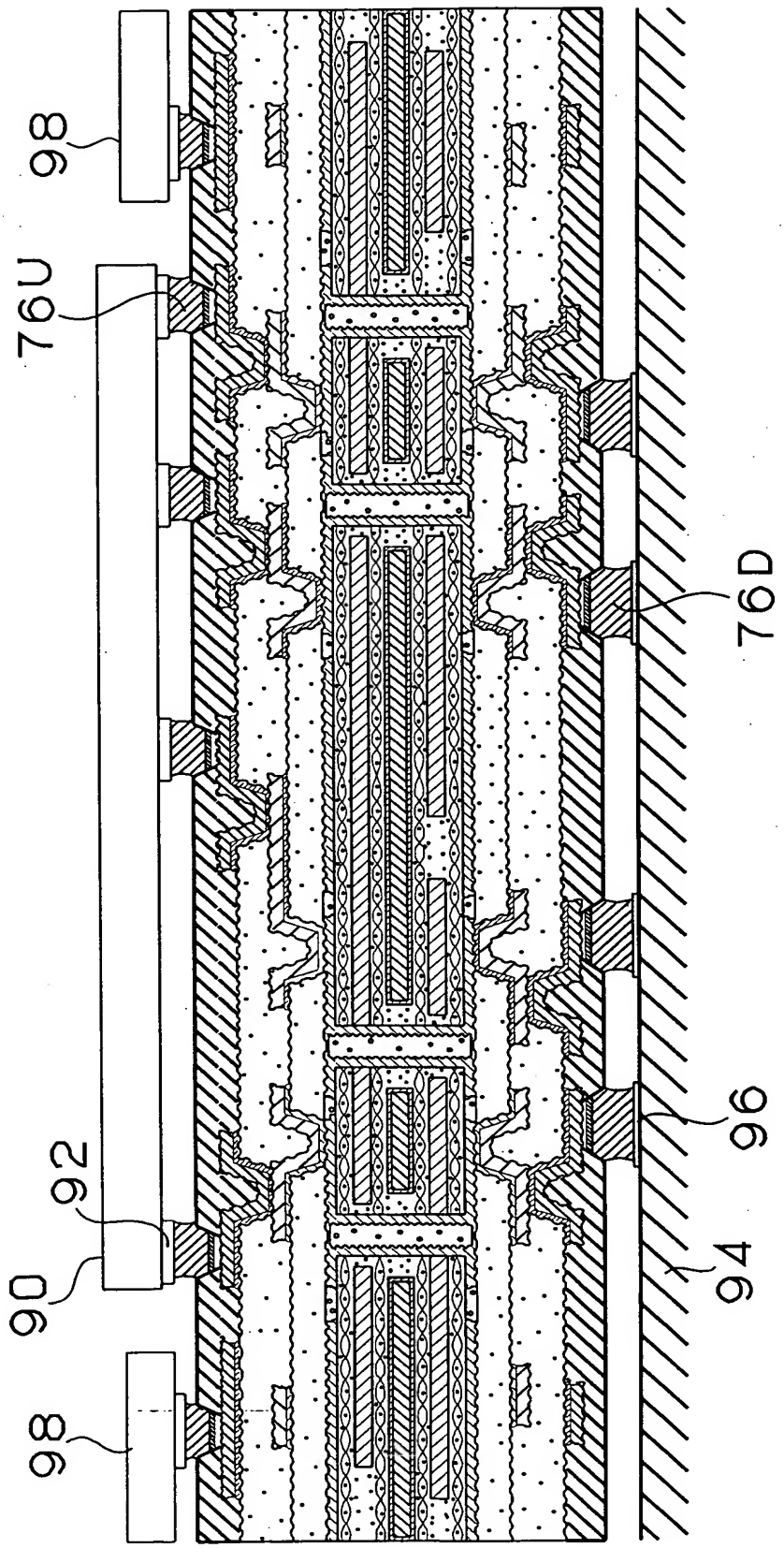


Fig.20

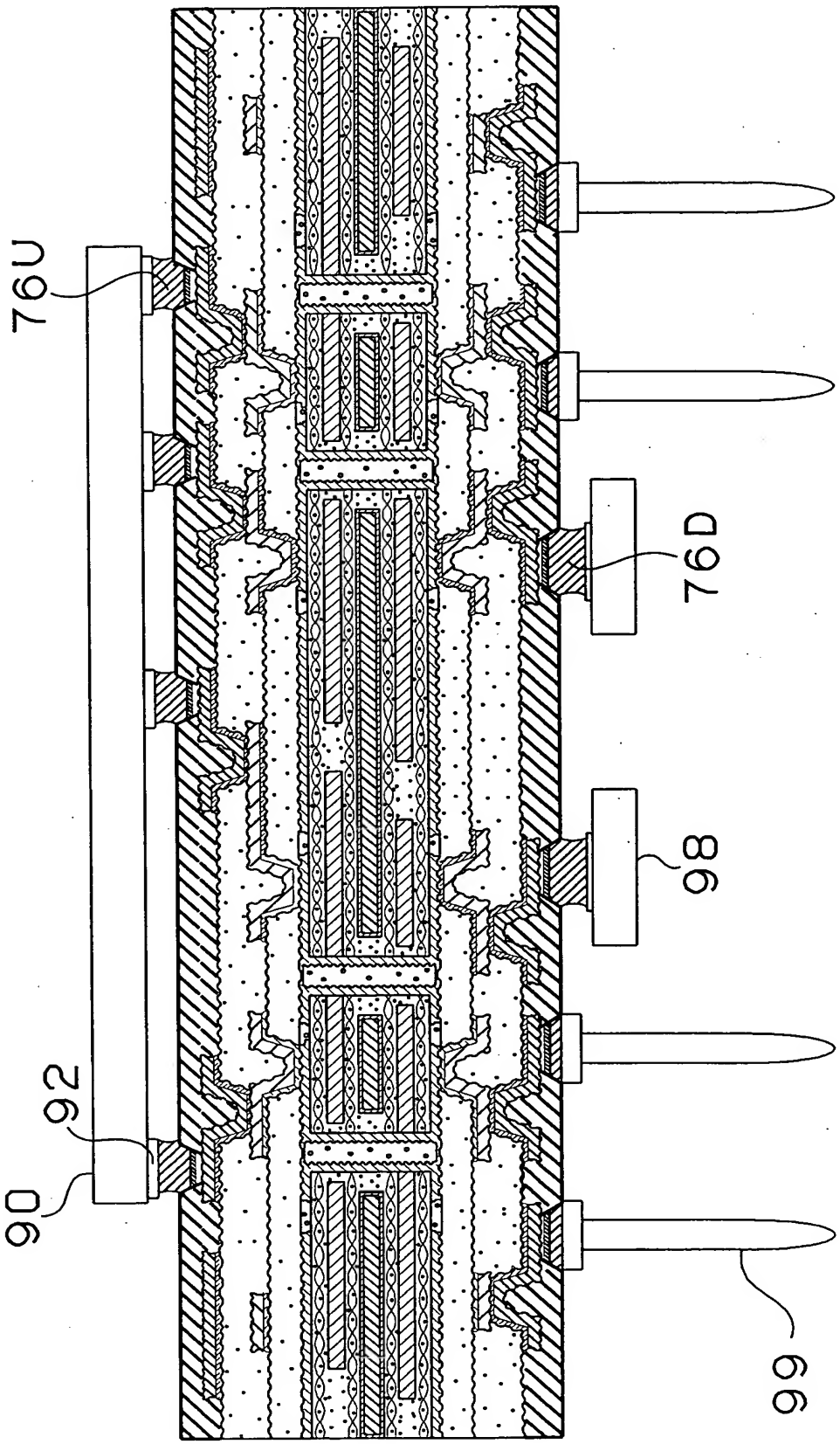


Fig. 21

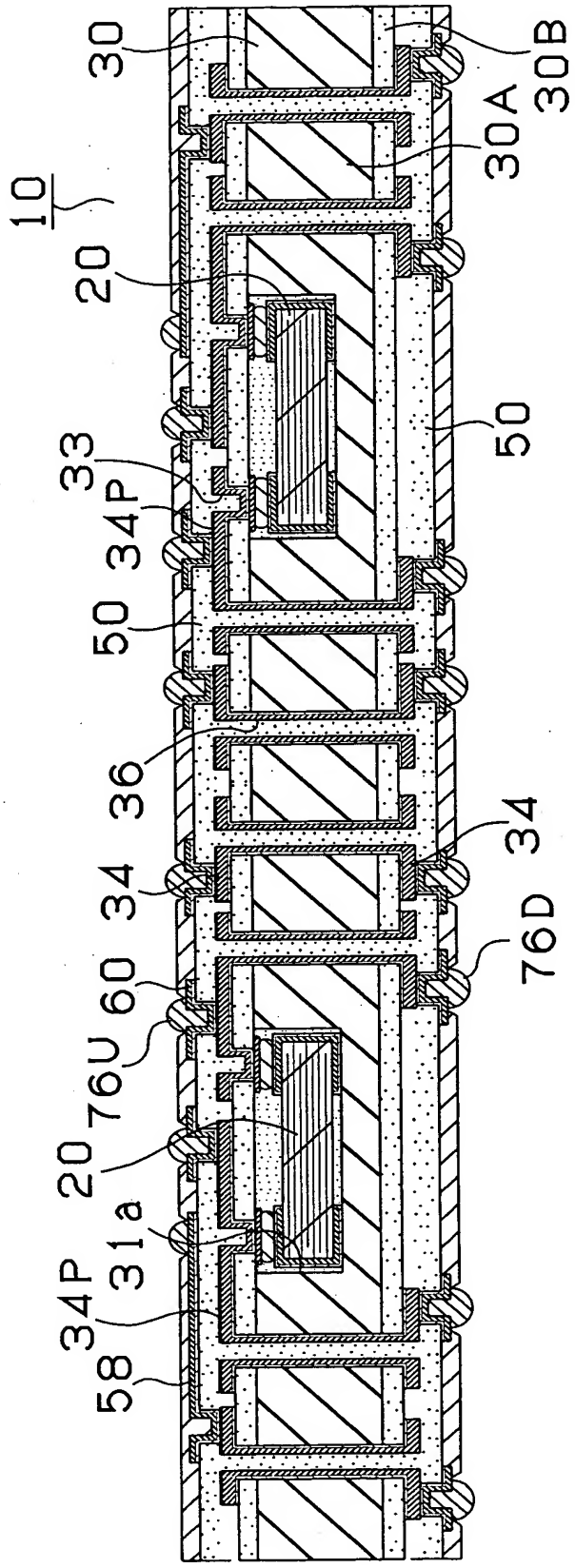


Fig.22

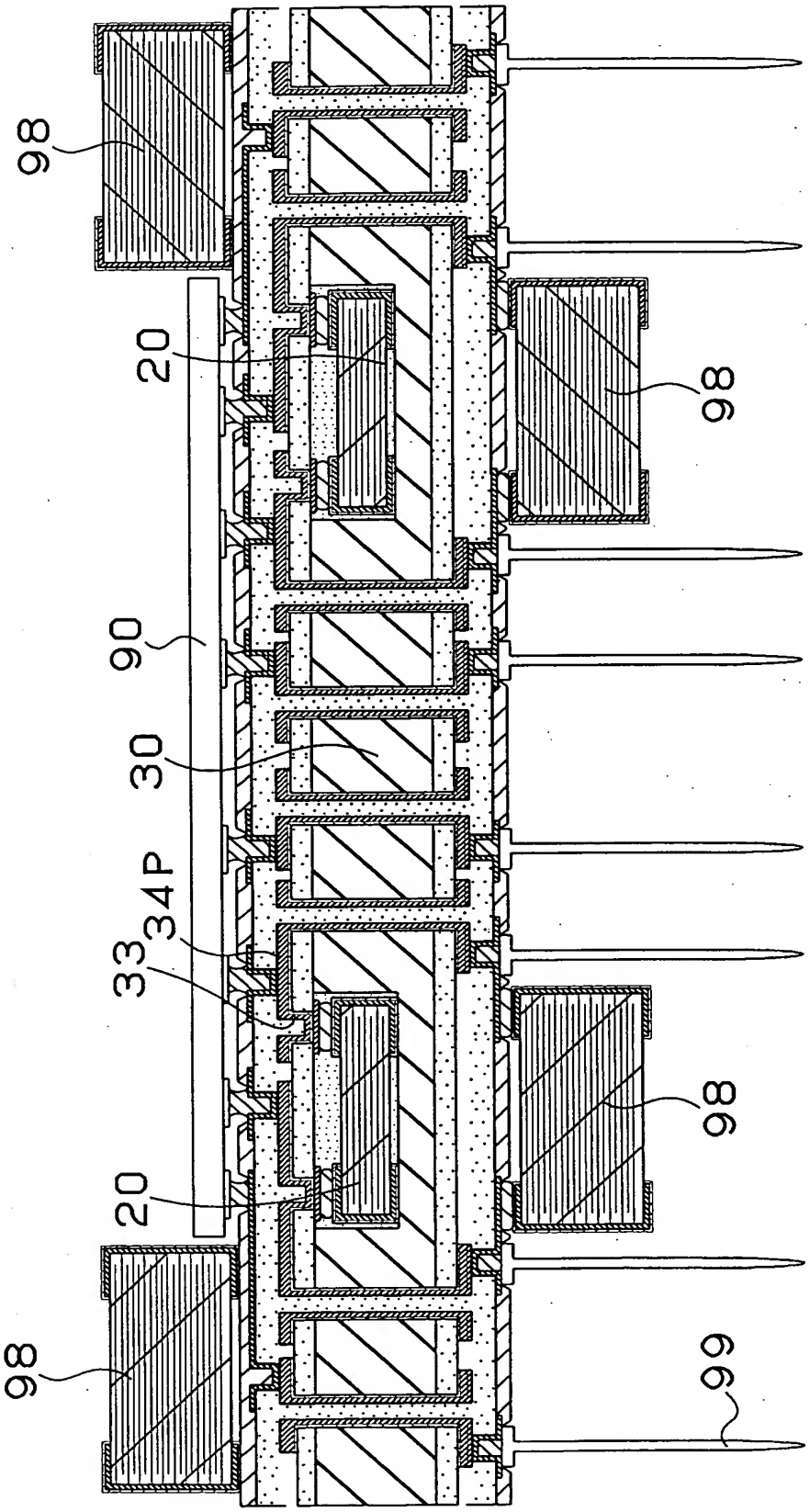


Fig.23

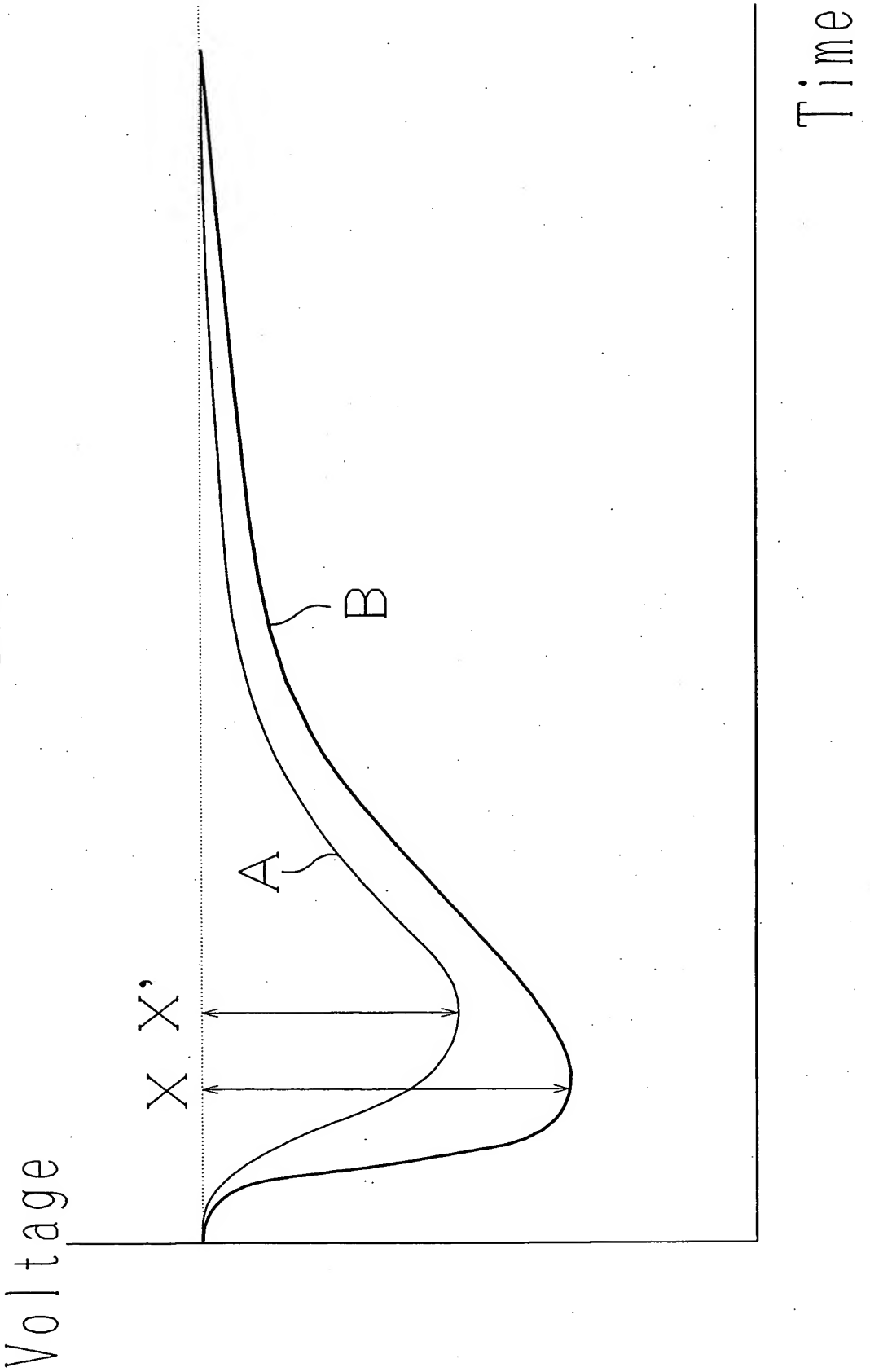


Fig.24

Fig.25

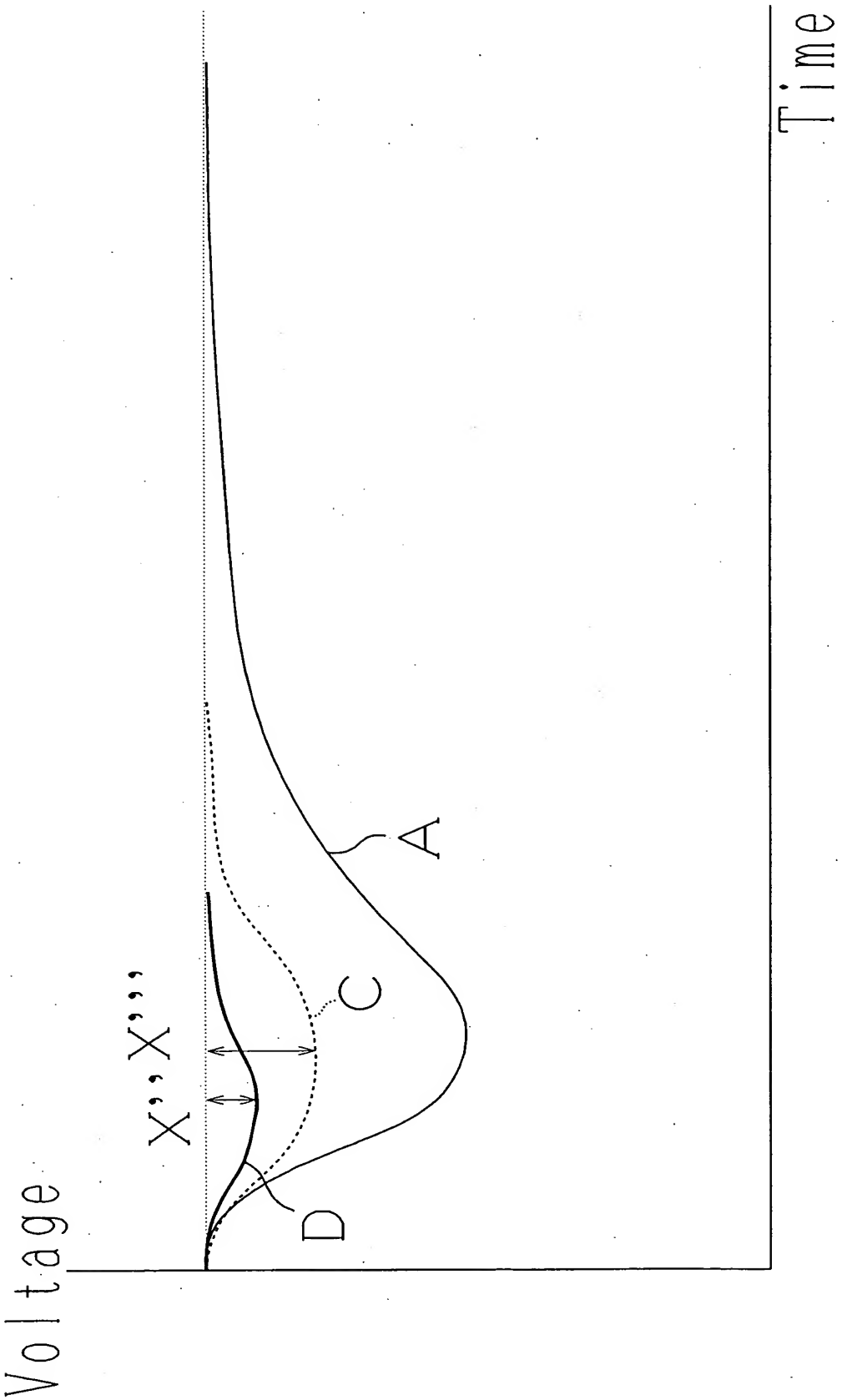


Fig.26

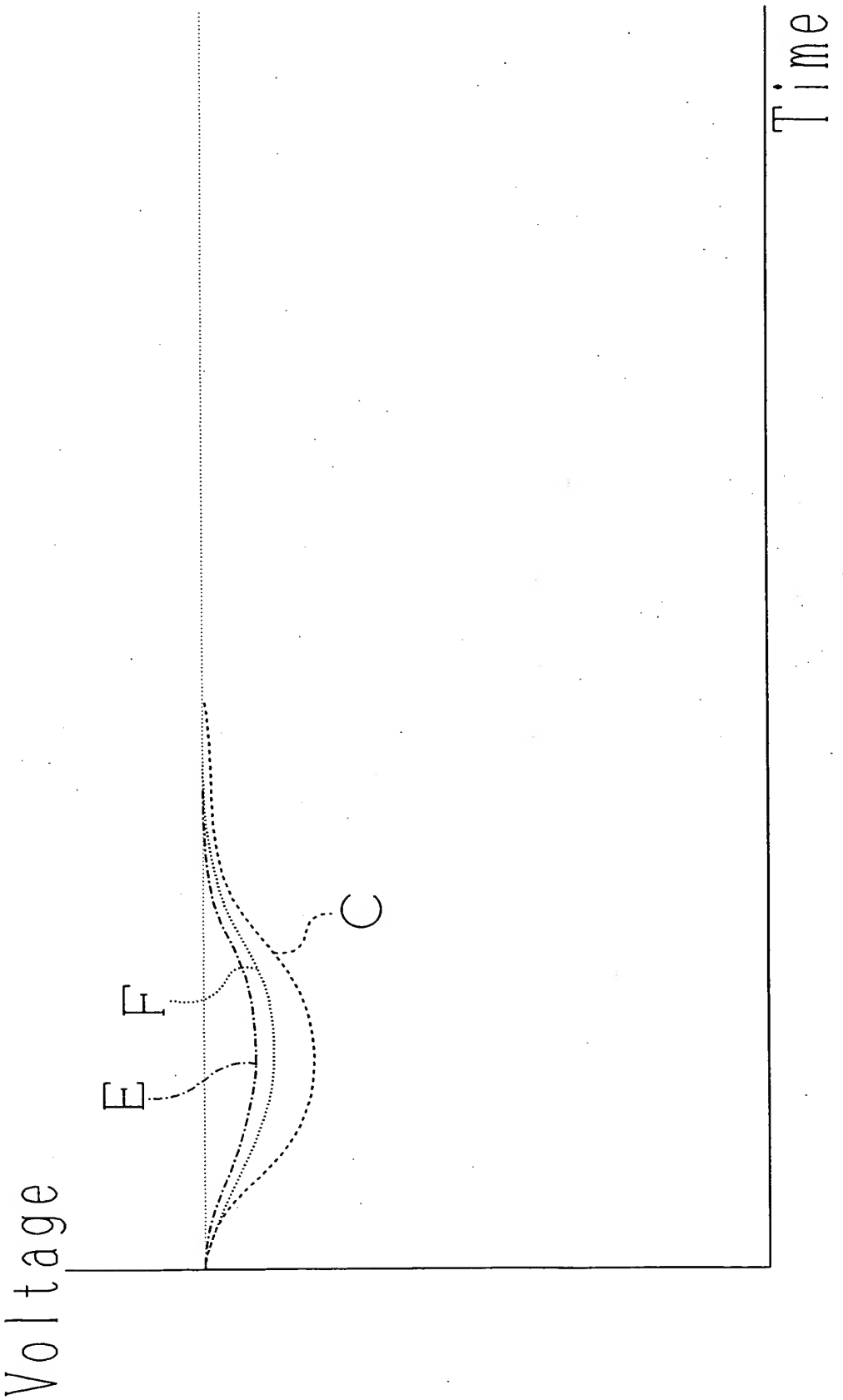


Fig. 27

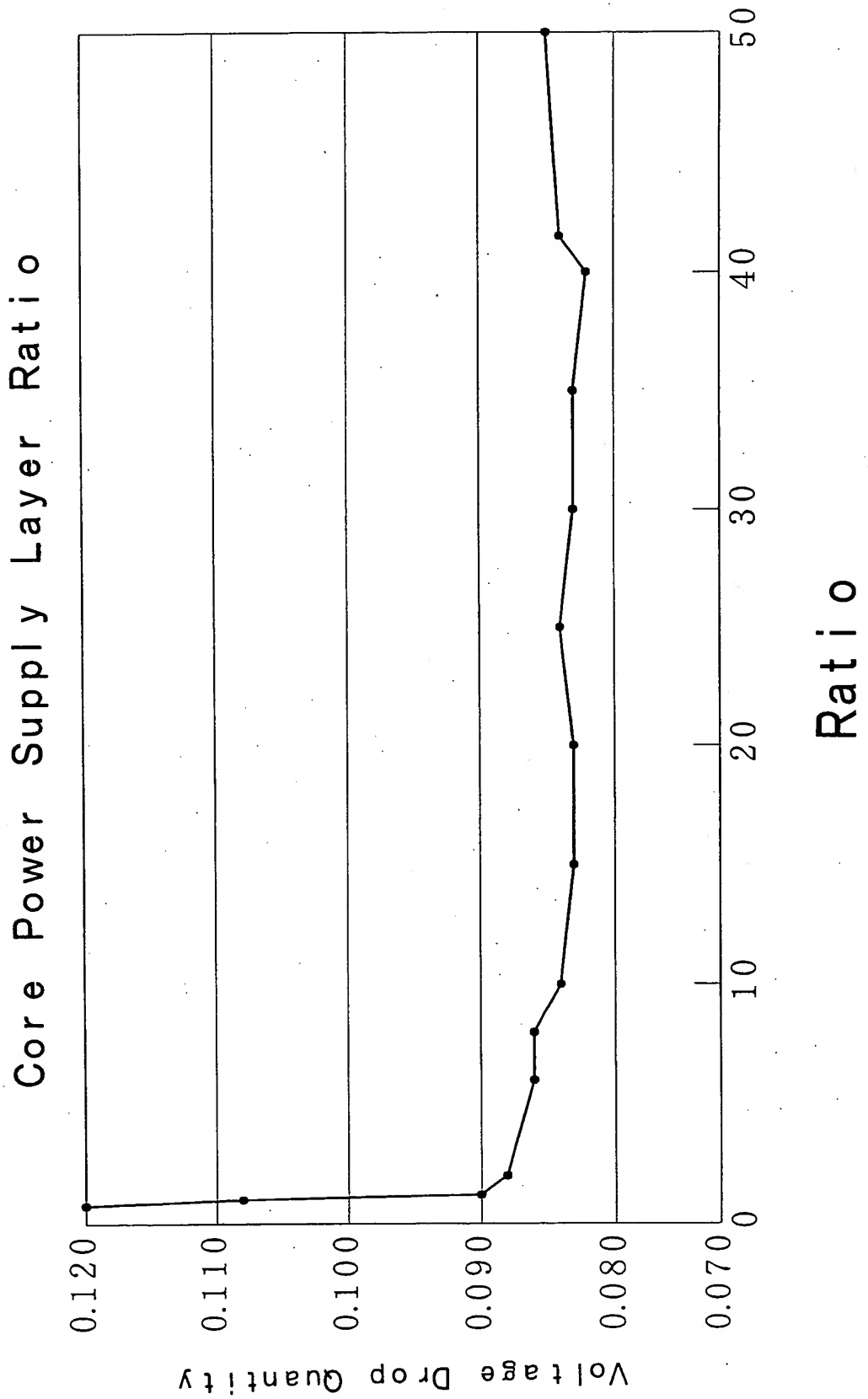
	Thickness of Conductor Circuit	100hr		300hr		500hr		1000hr		Voltage Drop Quantity
	Ratio α1／α2	Presence/ Absence of Malfunction of IC	Presence/ Absence of Open	Presence/ Absence of Malfunction of IC	Presence/ Absence of Open	Presence/ Absence of Malfunction of IC	Presence/ Absence of Open	Presence/ Absence of Malfunction of IC	Presence/ Absence of Open	Voltage (V)
Embodiment 1-1	2.0	○	○	○	○	○	○	○	○	0.087
Embodiment 1-2	3.7	○	○	○	○	○	○	○	○	0.088
Embodiment 1-3	5.0	○	○	○	○	○	○	○	○	0.088
Embodiment 1-4	30.0	○	○	○	○	○	○	○	○	0.083
Embodiment 1-5	1.2	○	○	○	○	○	○	○	○	0.089
Embodiment 2-1	2.0	○	○	○	○	○	○	○	○	0.088
Embodiment 2-2	3.7	○	○	○	○	○	○	○	○	0.088
Embodiment 2-3	5.0	○	○	○	○	○	○	○	○	0.088
Embodiment 2-4	30.0	○	○	○	○	○	○	○	○	0.084
Embodiment 3-1	2.3	○	○	○	○	○	○	○	○	0.087
Embodiment 3-2	3.7	○	○	○	○	○	○	○	○	0.087
Embodiment 3-3	10.0	○	○	○	○	○	○	○	○	0.084
Embodiment 3-4	30.0	○	○	○	○	○	○	○	○	0.083
Embodiment 3-5	40.0	○	○	○	○	○	○	○	○	0.083
Embodiment 4-1	3.3	○	○	○	○	○	○	○	○	0.088
Embodiment 4-2	4.0	○	○	○	○	○	○	○	○	0.087
Embodiment 4-3	5.0	○	○	○	○	○	○	○	○	0.088
Embodiment 4-4	20.0	○	○	○	○	○	○	○	○	0.083
Embodiment 4-5	30.0	○	○	○	○	○	○	○	○	0.083
Embodiment 4-6	40.0	○	○	○	○	○	○	○	○	0.083

Fig. 28

	Thickness of Conductor Circuit	100hr		300hr		500hr		1000hr		Voltage Drop Quantity
	Ratio α1／α2	Presence/ Absence of Malfunc-tion of IC	Presence/ Absence of Open	Presence/ Absence of Malfunc-tion of IC	Presence/ Absence of Open	Presence/ Absence of Malfunc-tion of IC	Presence/ Absence of Open	Presence/ Absence of Malfunc-tion of IC	Presence/ Absence of Open	Voltage (V)
Embodiment 5-1	6.7	○	○	○	○	○	○	○	○	0.086
Embodiment 5-2	5.4	○	○	○	○	○	○	○	○	0.086
Embodiment 5-3	10.0	○	○	○	○	○	○	○	○	0.084
Embodiment 5-4	20.0	○	○	○	○	○	○	○	○	0.083
Embodiment 5-5	30.0	○	○	○	○	○	○	○	○	0.083
Embodiment 5-6	40.0	○	○	○	○	○	○	○	○	0.082
Embodiment 6-1	2.0	○	○	○	○	○	○	○	○	0.088
Embodiment 6-2	3.7	○	○	○	○	○	○	○	○	0.087
Embodiment 6-3	5.0	○	○	○	○	○	○	○	○	0.087
Embodiment 6-4	30.0	○	○	○	○	○	○	○	○	0.083
Comparison Example	1.0	×	○	×	○	×	×	×	×	0.108
Reference Example	41.5	○	○	○	○	○	○	○	×	0.084

Presence/Absence of Malfunction of IC, (○ : No Malfunction; ×: Malfunction, Presence/Absence of Open, ○: No Open, × : Open)

Fig. 29



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